

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

7031.2C CHG 11

3/17/97

AIRWAY PLANNING STANDARD NUMBER ONE -- TERMINAL AIR NAVIGATION FACILITIES AND AIR TRAFFIC CONTROL SERVICES SUBJ:

- 1. PURPOSE. This change transmits revisions to Chapter 4, Air Traffic Control, and Appendix 2, Summary of Establishment and Discontinuance Criteria.
- 2. EXPLANATION OF CHANGE. This change provides establishment and discontinuance criteria for Precision Runway Monitors. The basis of the proposed criteria is a life-cycle benefit-cost analysis outlined in Report Number FAA-APO-97-5, "Establishment Criteria for Precision Runway Monitors (PRM)." Copies of this report are available from APO-200.
- 3. <u>DISPOSITION OF TRANSMITTAL</u>. After filing the attached pages, this change transmittal should be retained.

PAGE CONTROL CHART

Remove Pages	Dated	Insert Pages	Dated
iii	10/20/89	iii	10/20/89
iv	09/24/93	iv	3/17/97
		67 (and 68)	3/17/97
Appendix 2		Appendix 2	
17 (and 18)	09/24/93	17	09/24/93
		18	3/17/97

Barry L. Valentine

Acting Administrator

Distribution: A-WXZ-2; A-X(AF/AS/AT/FS/2);

A-X(AF/AS/AT/FS)-3; A-FAF-2/3(LTD);

A-FAS-1(LTD); A-FAT-1,2,5,6(LTD)

Initiated By: APO-200



TABLE OF CONTENTS

	-
	Page No.
GWAREN A GRAPHA	
CHAPTER 1. GENERAL	1
1. Purpose	1
2. Distribution	1
3. Cancellation	1
4. Background	1
5. Explanation of Changes	2
6. Authority of Changes to this Order	2
7. Policy	2
8. Scope	5
919. Reserved	6
CHAPTER 2. NAVIGATION AIDS	11
SECTION 1. AIR NAVIGATION RADIO AIDS	11
20. Microwave Landing System (MLS) with Approach Lights	11
21. Instrument Landing System (ILS) with Approach Lights	14-2
* 22. Nonprecision Instrument Approach System	17
23. VOR Test Signal (VOT)	
2425. Reserved	24
SECTION 2. RADAR SERVICES	27
26. Airport Surveillance Radar with Air Traffic Control	
Radar Beacon System and Automated Radar Terminal	
System (ASR/ATCRBS/ARTS)	27
27. Precision Approach Radar (PAR)	31
2829. Reserved	31
CHAPTER 3. AERONAUTICAL LIGHTING AND AIRPORT MARKING AIDS	35
30. Runway End Identification Lights (REIL)	35
31. Visual Approach Slope Indicator (VASI) VFR Only	37
32. Retrofit of Runway Approach Lighting Systems	41
3339. Reserved	42

TRAFFIC CONTROL TOWER FACILITIES -- FINAL RULE (6 pages)

3/17/97 7031.2C CHG 11

54. PRECISION RUNWAY MONITORS (PRM).

a. <u>Establishment</u>. An FAA towered airport qualifies as an establishment candidate for PRM:

- (1) if the present value of incremental life-cycle benefits exceeds the present value of incremental life-cycle costs, using the benefit-cost methodology outlined in Report Number FAA-APO-97-5, "Establishment Criteria for Precision Runway Monitor (PRM)"; or
- (2) for those locations which do not qualify under paragraph 54a (1), the location may still qualify for a PRM if the Administrator determines that an aeronautical requirement exists due to operational or safety factors, such as runway configuration, terminal approach procedures, or delay at feeder or receiver airports or elsewhere in the National Airspace System (NAS) which can be related to delay at the PRM candidate airport.

Chap 4

Par 54 Page 67(and 68)



FIGURE 3. SUMMARY OF ESTABLISHMENT AND DISCONTINUANCE CRITERIA FOR CHAPTER 4, AIR TRAFFIC CONTROL (CONTINUED)

Facility or Service	Establishment	Discontinuance	Additional Facilities or Improvements
Metroplex Control Facility, Paragraph 52	Sum of ratio values equals or exceeds 1.0 or number of instrument operations or enplanements exceeds values identified in FAA-APO-93-7 plus benefit/cost study.	Site specific justification.	
Terminal Radar Approach Control (TRACON) Facility, Paragraph 53.	Accomplished in accordance with procedures of FAA Order 6480.17, "Terminal Facility Modernization/ Relocation Survey and Evaluation Handbook" and AAT-93-2, "Operational Requirements and Facility Investment Criteria for Metroplex Control Facilities (MCF) and Terminal Radar Approach Control (TRACON)	Accomplished in accordance with procedures of FAA Order 6480.17, "Terminal Facility Modernization/ Relocation Survey and Evaluation Handbook" and AAT-93-2, "Operational Requirements and Facility Investment Criteria for Metroplex Control Facilities (MCF) and Terminal Radar Approach Control (TRACON)	

FIGURE 3. SUMMARY OF ESTABLISHMENT AND DISCONTINUANCE CRITERIA FOR CHAPTER 4, AIR TRAFFIC CONTROL (CONTINUED)

Facility or Service	Establishment	Discontinuance	or Improvements
* Precision Runway Monitor, Paragraph 54	Benefit-cost ratio is greater than or equal to 1.0, or, if the benefit-cost ratio is less than 1.0, the Administrator determines that an aeronautical requirement exists due to operational or safety factors such as runway configuration, terminal approach procedures, or delay at feeder or receiver airports or elsewhere in the National Airspace System (NAS) which can be related to delay at the PRM candidate airport.	Benefit-cost ratio is less than 1.0 or a previously identified aeronautical requirement no longer exists.	